

Locations of TCDD Soil Samples Taken April 10-12, 1984

(revised 5-12-84)

JDB

Site:	Snyder Verona
ID#:	MD0007452154
Break:	1984 3.4
Other:	4-10-84

1 Times Beach (rectangular grid streets run NW-SE & NE-SW)

4-10-84

0151

**Background Sample** - In a vacant lot, 2 to 6 inch depth, 14 paces southwest from the centerline of Dogwood at a point 20 paces northwest of the intersection of Dogwood and Park. Nearest EPA sample location is AK2914 (LT 1.0 ppb). Three 5-gallon cans with Battelle sample numbers 7, 8, and 9. A dark medium textured soil with many roots and a good cover of weeds 3 to 18 inches tall.

**Contaminated Sample** - On the midline of the driveway at 324 Laurel, 2 to 6 inch depth, 11 paces in from the midline of Laurel. The driveway is located 40 paces southeast of the middle of the intersection of Laurel and Dalhia. Nearest EPA sample locations were AK3308 and AK3308D. These were taken on the centerline of Laurel near the driveway to 324. Two 5-gallon cans with Battelle numbers 1 and 2; four 1-gallon core cans with Battelle numbers 3, 4, 5, and 6. Was a gravel driveway that had been oiled one or more times. The sample was about half gravel and dark soil mixed with lighter colored soil.



40032246

SUPERFUND RECORDS

2 Sontag Road 4-10-84

**Background Sample** - At the end of the road past the clubhouse at the west end of the abandoned Castlewood Swimming Pool, south of Sontag Road. Appeared to be mainly silt and sand. Nearest EPA sample location was AK9914 (LT 1.0 ppb). Three 5-gallon cans with Battelle numbers 12, 13, and 14.

**Contaminated Sample** - On the west shoulder of New Ballwin Road, south of the junction of Sontag and New Ballwin, 1.5 paces from the edge of the pavement. The southwest corner of the Horsfall Residences was on the opposite side of New Ballwin. Sample located about midway between EPA sample locations A05590 (210.0 ppb) and A05593 (9.5 ppb). Some question about this sample a local fireman reported that this part of New Ballwin Road was not oiled. If the road was not oiled then TCDD would have to be transported by erosion and the high values would be in the bottom of the drainage ditch. Two 5-gallon cans with Battelle numbers 10 and 11; four 1-gallon core cans with Battelle numbers 15, 16, 17, and 18.

3 Piazza Road (Rosati) 4-11-84

**Background Sample** - On the railroad right of way on the residence/church side of the ditch along the railroad, south of St. Anthony's Church, 2 to 6 inch depth. Three 5-gallon cans with Battelle numbers 24, 25, and 26.

**UBC 163189**

**Low Contamination Sample** - South of Piazza Road about 50 feet west of the northwest corner of the Bodine property in the drainage ditch along the road, west of the point where Bodine stops mowing the grass, well west of the N-S drainage ditch that shows as the Bodine property boundary on the EPA map. Surface soil was saturated; lighter colored subsoil was unsaturated. The nearest EPA sample was AK5004, 0-6, 110-483ppb (line of samples just off the south side of Piazza Rd.) Two 5-gallon cans

7058063

272-1-705863

Battelle numbers 22 and 23; four 1-gallon core cans with Battelle numbers 27, 28, 29, and 30; three 1-quart incremental samples with Battelle numbers 31, 32, and 33.

High Contamination Sample - At the intersection of Piazza Road and the two access roads to the Bliss Auto Storage Barn, within 2 feet to either side of the northeast end of the blocked culvert pipe that crosses under Piazza Road between the railroad track and the access road, about 1 foot down from the edge of the road. The culvert mouth is located 13 paces perpendicular to the railroad track west along Piazza Road and 7 paces northeast from the middle of Piazza at the point where it meets the access roads. The nearest EPA sample was AK5012, 0-2, 1700ppb. Two 5-gallon cans with Battelle numbers 34 and 35; four 1-gallon core cans with Battelle numbers 36, 37, and 38.

Bubbling Springs (from memory, I didn't take any notes there) 4-11-84

Background Sample - Between Romaine and Bubbling Springs Creeks south of the stable - near where the control sample is shown on the March 30, 1983 EPA report on the site. Looked like floodplain alluvial material high in silt. Three 5-gallon cans with Battelle numbers . . . . .

Contaminated Sample - Taken at the east end of the outdoor arena, just to the right of the point where water drains from the arena, and in the higher area close to the fence. The profile was about 9 inches of light brown sandy soil over a hard, dark soil that appeared to have much more clay. The samples were a mixture of the sandy upper material and the darker lower material. Previous samplings were by depth increments and were composited for the whole perimeter of the arena so it was not clear what mix of upper and lower materials these samples represented. Also took two 1-quart samples, one of the sandy upper material and one of the darker lower material. The previous EPA composite sample of the perimeter contained 76 ppb TCDD for 0-6 inches and 95 ppb TCDD for 6-12 inches (May 29, 1982 sampling). Two 5-gallon cans with Battelle numbers . . . . and four 1-gallon core cans with Battelle numbers . . . . Dug a hole just outside the arena and could not find a subsoil that was as dark or dense and platy-structured as the subsoil in the arena.

Shenandoah Stables 4-12-84

Background Sample - In a field 110 paces north of the midline of the access road to the stables. This field is about 8 inches higher than the fields next to the stables; there is an abrupt change in elevation at the second fence north of the stables. The sample was taken at the 0-6 inch depth about 10 paces north of the second fence and about 25 paces west of the north-south fence between the field and the freeway right of way.

Contaminated Sample - In August 1971 the first 6 to 8 inches of the arena were scraped off and used as fill in construction of the freeway; in March 1972 another 18 inches of the arena were scraped off and used to fill the slough area from which we took the contaminated sample. After the slough was filled, the contaminated soil was covered with a lighter colored sandy soil. EPA sampling on May 27, 1982 showed 113 ppb TCDD in the first 6 inches and about 1300 ppb TCDD in the 6 to 30 inch interval. When we dug the sample pit the fill material from the arena showed clearly. It was much darker and denser (probably had more clay) than the yellow brown sandy

UBC 163190

272-1-7058664

material used as final cover. The cover material peeled off easily from the dark fill material. There were roots and worms in the cover material; no roots or worms in the fill material and it had a dense platy structure. All samples were taken from the dark fill material. Three pits were opened along a north-south line down the middle of where the slough appeared to be from the EPA map of the site. This line was about 3 paces west of the edge of the horse walking ring nearest the freeway - the horse walking machine was not there but the circular path was apparent. The bulk samples were a mixture of material from all three pits. Two 5-gallon cans with Battelle numbers 50 and 51; four 1-gallon core cans with Battelle numbers 59, 60, 61 and 62. EAST

NEED TO ADD  
DESCRIPTION OF SAMPLING  
AT MINKER RESIDENCE

BULK SAMPLES SURFACE AND  
IN GULLY; CORE SAMPLES  
SURFACE. NO BACKGROUND.  
SAMPLE 4/20/84

UBC 163191

272-1-7058665

# TIMES BEACH, MISSOURI

## U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 7 - KANSAS CITY

Pre-Flood and Post-Flood Dioxin Analysis  
283 of 369 Samples Available as of 2/4/83  
Quality assurance has not been completed  
for these values

### LEGEND

	Less than 1 ppb
	1 - 5 ppb
	5 - 20 ppb
	20 - 100 ppb
	100 - 300 ppb

= Parts Per Billion

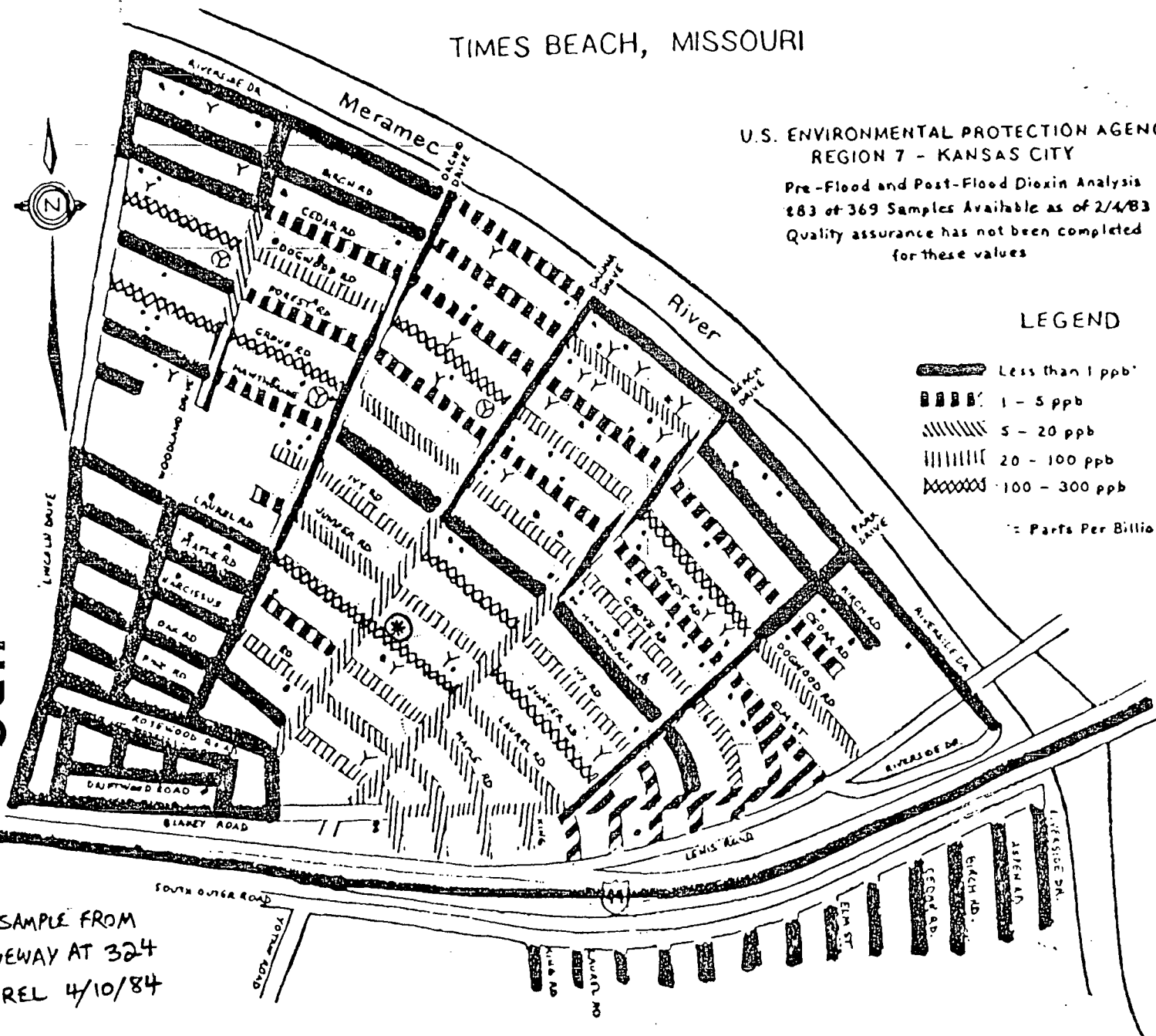
• Houses Sampled

Y Yard Sample

⊙ Dioxin Detected  
< 5 ppb

UBC 163192  
878-1-7058666

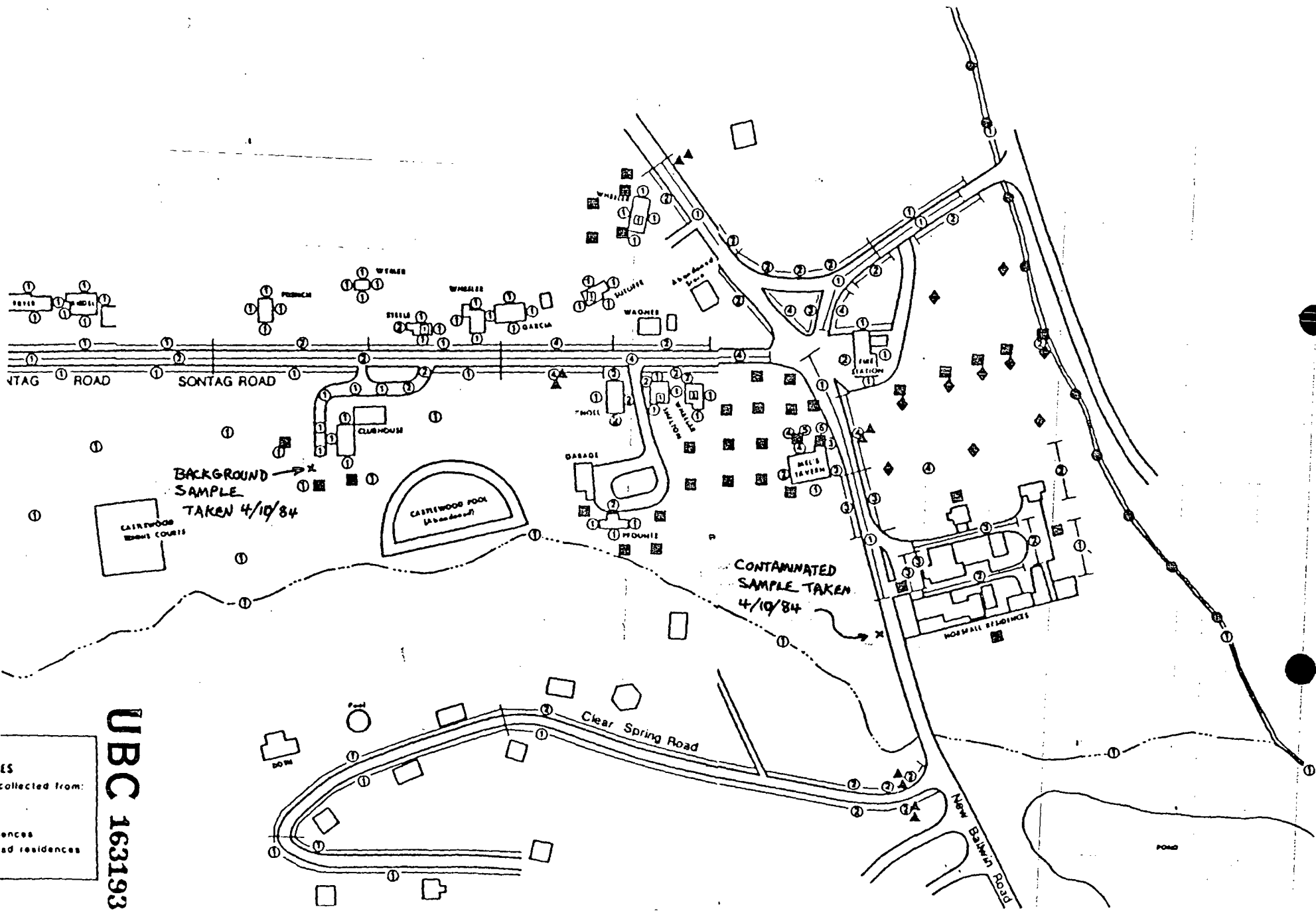
\* SAMPLE FROM  
DRIVEWAY AT 324  
LAUREL 4/10/84



272-1-7058667

ES  
collected from:  
fences  
and residences

UBC 163193

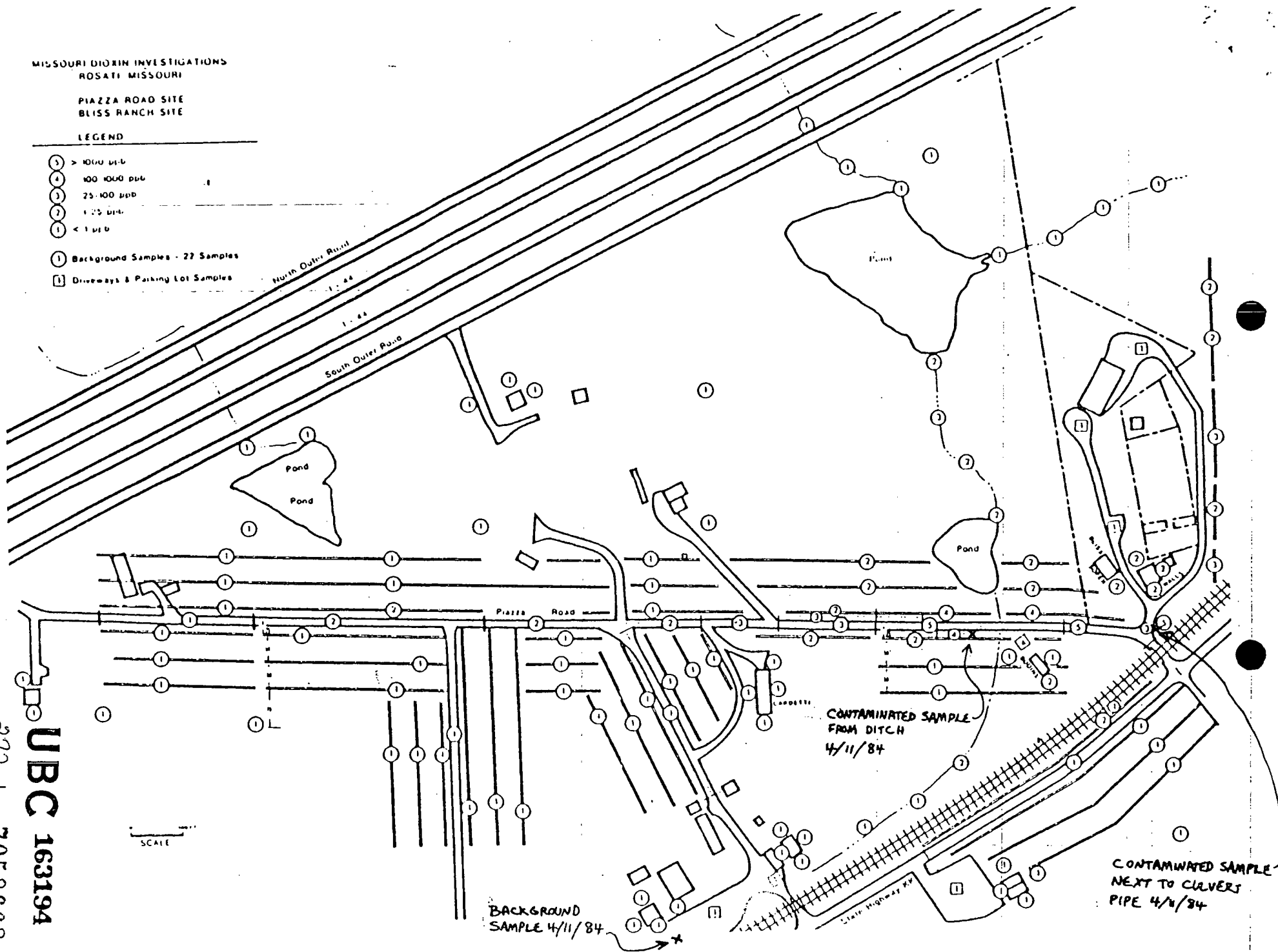


MISSOURI DIOXIN INVESTIGATIONS  
ROSATI MISSOURI

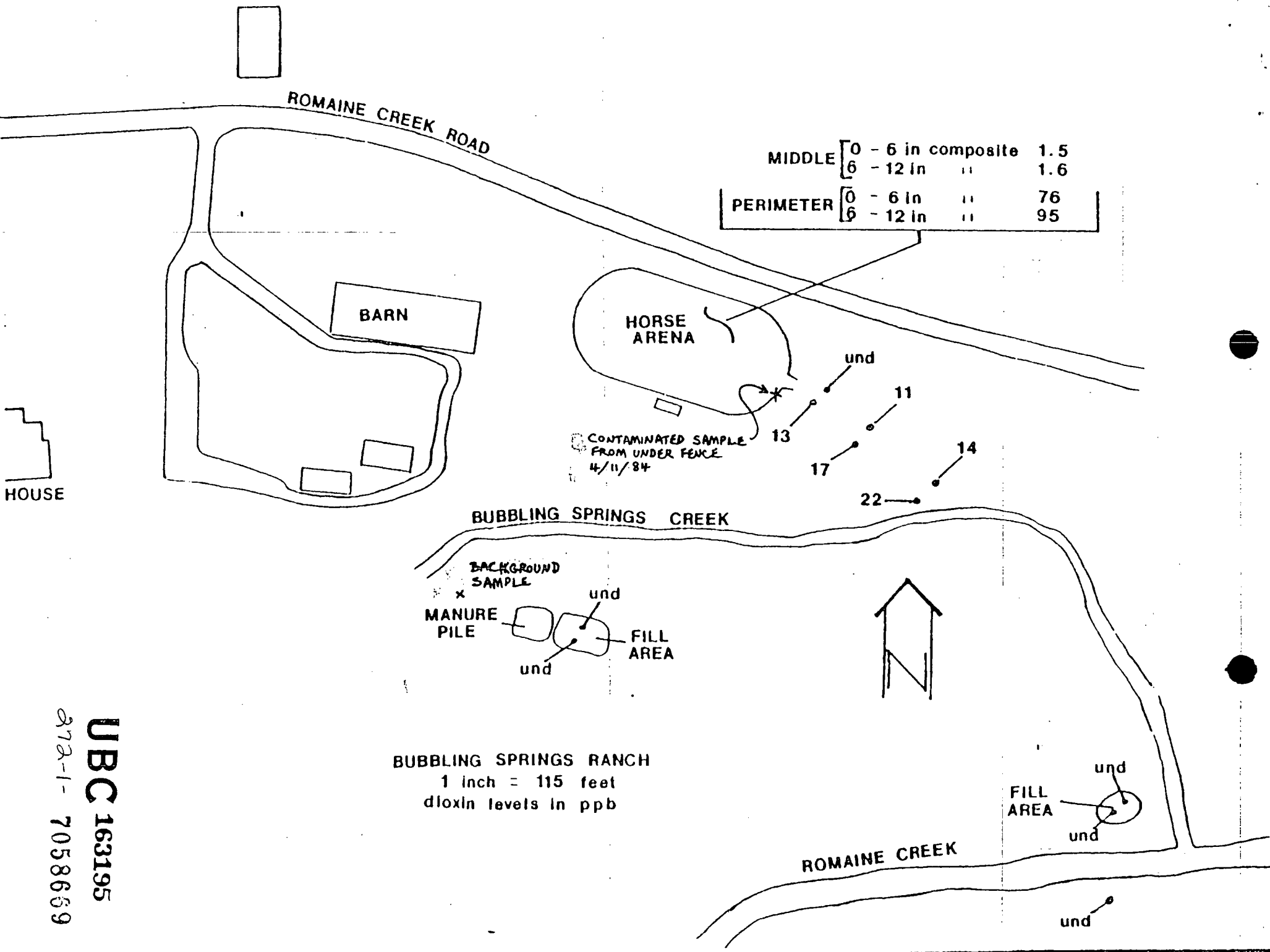
PIAZZA ROAD SITE  
BLISS RANCH SITE

LEGEND

- ① > 1000 ppb
- ② 100-1000 ppb
- ③ 25-100 ppb
- ④ 1-25 ppb
- ⑤ < 1 ppb
- ① Background Samples - 22 Samples
- ② Driveways & Parking Lot Samples



272-1-7058668  
UBC 163194



BUBBLING SPRINGS RANCH  
1 inch = 115 feet  
dioxin levels in ppb

UBC 163195  
872-1-7058669

SCALE 1"=50'

N →

Horse Stables

SHENANDOAH  
Horse Arena

Bleachers

~~Dist. Stables~~

Paddock Club

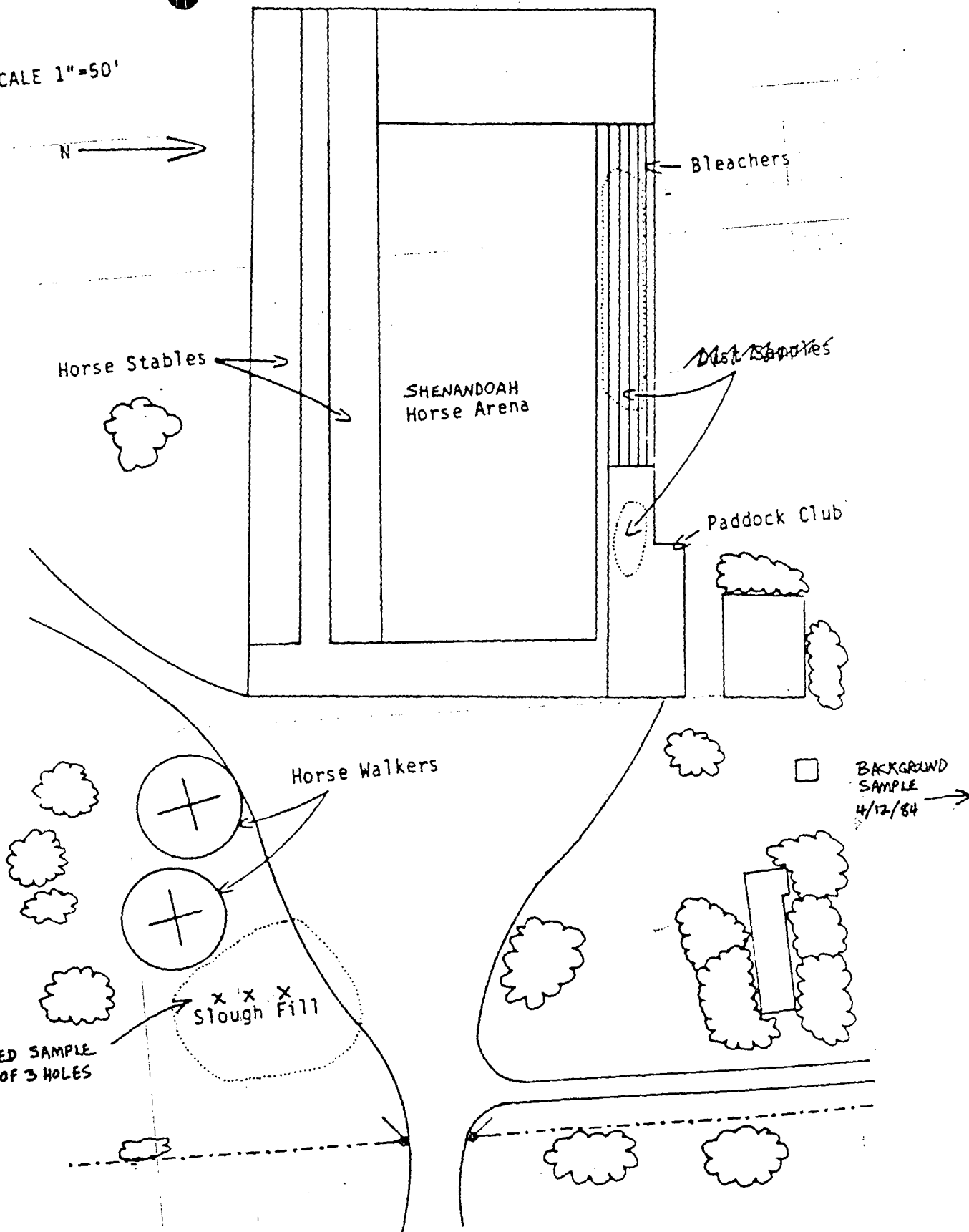
Horse Walkers

□ BACKGROUND  
SAMPLE  
4/12/84 →

CONTAMINATED SAMPLE  
COMPOSITE OF 3 HOLES  
4/12/84

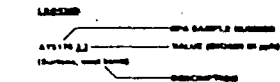
x x x  
Slough Fill

UBC 163196  
272-1- 7058670





UBC 163197



**FIGURE 4-5  
MINKER SITE MAP  
SAMPLE LOCATIONS**

PRELIMINARY